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D Zimmer, R Unland - Proceedings of the 15th International Conference on Data ..., 1999  
doi.ieeecomputersociety.org  
... of rules, the so-called **ECA-Rules** (Event ... If the **condition** is satisfied, the specified ac ... To react to more sophisticated situations, **complex events** were introduced ...  
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L Liu, C Pu, W Tang - Knowledge and Data Engineering, IEEE Transactions on, 1999 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)  
... actions with respect to the data set over which the trigger **condition** and query ... This feature simplifies many **complex** issues in ECA Rules, especially ...  
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[PS] Framboise {an approach to construct active database mechanisms - all 5 versions »}  
H Fritschi, S Gatziu, KR Dittrich - University of Zurich, 1997 - [historical.ncstrl.org](http://historical.ncstrl.org)  
... condition or action objects. ... ECA-Systems. ... work, however, is recognized as a complex  
task[9] 5 . Thus, we aim at the realization of a comprehensive ...  
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## [Investigating Termination in Active Database Systems with Expressive Rule Languages - all 9 versions »](#)

A Vaduva, S Gatziu, KR Dittrich - Rules in Database Systems: Third International Workshop, ..., 1997 - books.google.com  
... rule operations, and on the other hand **complex conditions** and actions ... R be the set of defined ECA-rules ... an event is signalled 1. After event signalling, control ...  
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Distributed events in active database systems: Letting the genie out of the bottle - all 5 versions »  
A Koschel, PC Lockemann - Data & Knowledge Engineering, 1998 - Elsevier  
... Global temporal ordering of distributed **complex events**, if needed ... Processing Unit:  
In C2offein ECA rules are ... Corresponding condition parts are defined on the ...  
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[An event-condition-action language for XML - all 10 versions »](#)

J Bailey, A Poulovassilis, PT Wood - Proceedings of the 11th international conference on World ..., 2002 - portal.acm.org

... of triggering and activation relation- ships between **ECA** rules is more **complex** in an ... relations with potential events or with the bodies of rule **conditions**. ...

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**ECA rule-based support for workflows - all 3 versions »**

A Goh, YK Koh, DS Domazet - Artificial Intelligence in Engineering, 2001 - Elsevier

... R2: Event Draft\_Design\_completed (design) **Condition** repair\_authorized Action ... and the processes are large and **complex**. ... for workflows based on **ECA** rules [14, 15 ...

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**Moving Active Functionality from Centralized to Open Distributed**

**Heterogeneous Environments - all 6 versions »**

M Cilia, C Bornhovd, AP Buchmann - ... Information Systems: 9th International Conference, CoopIS ..., 2001 - books.google.com

... Based EGA-Rule Processing We realize the **ECA**-rule processing ... combination of its basic

services, ie **complex event detection**, **condition evaluation**, and ...

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**DEVICE: Compiling production rules into event-driven rules using complex events - all 6 versions »**

N Bassiliades, I Vlahavas - Information and Software Technology, 1997 - Elsevier

... Oriented Database (OODB) system that supports **ECA** rules only. The integration is based on the compilation of the rule **condition** into a **complex event network** ...

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### Artificial Intelligence in Engineering

Volume 12, Issues 1-2, January-April 1998, Pages 1-14

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## An intelligent database for engineering applications

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Received 30 November 1995; revised 10 May 1996; accepted 23 August 1996. ; Available online 18 June 1998.

### Abstract

Many engineering applications need to response to unpredictable events in a timely manner. Active databases provide an event-driven rule processing capability to meet this requirement. In this paper, we present an intelligent database which integrates an object-oriented database (OODB) with an expert system, CLIPS. The paper describes the design and implementation of the rule manager of this intelligent database. In the rule manager, event-condition-action (ECA) rules are represented as first class objects of the OODB. A rule definition language (RDL) is developed to manipulate ECA rules in a declarative way. A graphical user interface (GUI) supplies a template to interactively define, delete, update and check ECA rules. Detection of time events, method events, absolute events and composite events is supported by the rule manager. The CLIPS inference engine is used to control condition evaluation and action execution. A typical workflow application is used to illustrate the functionality of the system.

**Author Keywords:** object-oriented database; active database; expert systems; rules

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2. G. Kappel and S. Vieweg, Database requirements for CIM applications. *Journal of Integrated Manufacturing*

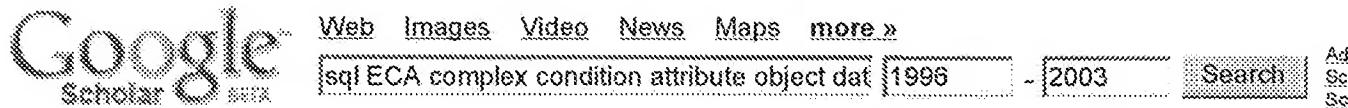
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 ... used in database de-sign, specify **conditions** on the ... and foreign key constraints, up to **complex** features, such ... diverse integrity features proposed in SQL:1999 ...  
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 AP Buchmann - Active Rules in Database Systems, 1999 - dvs1.informatik.tu-darmstadt.de  
 ... In the case of SQL, ECA rules are specied as ... and deactivation of constraints modeled by ECA rules. ... evaluation super- uous and revert to (complex) event-action ...  
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 ... be anything from a database language (eg, SQL for Starburst ... R be the set of defined ECA-rules. ... Providing this information for **complex** actions and **conditions** is ...  
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[\[PS\] Using Active Mechanisms for Global Integrity Maintenance in Federated Database Systems - all 4 versions »](#)  
 C Türker, S Conrad - Kurzfassungen des Workshops "Federierte Datenbanken", ..., 1996 - wwwiti.cs.uni-magdeburg.de  
 ... In order to formulate **complex conditions** across several CDBSs, an ... When a SQL-operation (eg an update) is sent ... concerns the derivation of local ECA-rules from ...  
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[\[PDF\] Managing complex taxonomic data in an object-oriented database - all 3 versions »](#)  
 C Raguenaud - 2002 - soc.napier.ac.uk  
 ... especially **complex** and ... 18: Attribute ... constraint **condition**..... ...  
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[Active database support for STEP/EXPRESS models - all 2 versions »](#)  
 Y DONG, CFY CHEE, Y HE, A GOH - Journal of Intelligent Manufacturing, 1997 - Springer  
 ... rules as **complex objects** of four classes. ... The ECA rule is eventually constructed and @red in CLIPS. ... CJ and Darwen, H. (1993) A Guide to the SQL Standard, 3rd ...  
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[all 5 versions »](#)

H Ditt, Westfalen) Universität (Münster - 1997 - Univ

... Que- ries can be formulated in the **SQL-like object-oriented** ... The definition of triggers is more **complex**. In general, a trigger is defined in an **ECA**-style as: on ...[Cited by 10 - Related Articles - Web Search - Library Search](#)[\[PDF\] Semantic Integrity Support in \*\*SQL-99\*\* and Commercial \(\*\*Object\*\*-\) Relational Database Management Systems - all 4 versions »](#)

C Turker, M Gertz - Computer Science Technical Report, University of California, ..., 2000 - cs.ucdavis.edu

... used in the **database design**, specify **conditions** on the ... the former are also used in **SQL-99** as ... Using these extensions, **complex** datatypes can be constructed for a ...[Cited by 5 - Related Articles - View as HTML - Web Search](#)[\[PDF\] Designing databases using the \*\*activity paradigm\*\* - all 2 versions »](#)

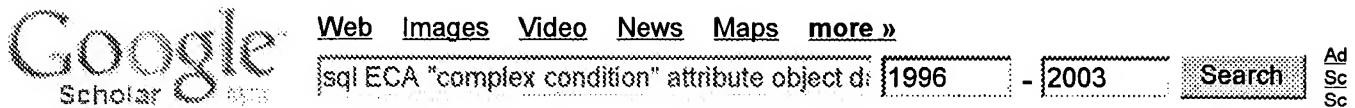
Y Amghar, M Meziane - Third International Workshop of the Moscow ACM SIGMOD ..., 1996 - cdserv4.inria.fr

... rules, which can be expressed by **ECA** (event - con ... So this concept allows us to enforce **complex** business rules ... that groups logically related PL/SQL types, **objects** ...[Cited by 2 - Related Articles - View as HTML - Web Search](#)[Overview of emerging \*\*database\*\* architectures - all 4 versions »](#)

TCT Du, PM Wolfe - Computers &amp; Industrial Engineering, 1997 - Elsevier

... oriented **database** can be written in **SQL** mode, it is ... in another **object**, an unstructured **complex object** cannot be ... were the definitions of the **attributes** of **ECA**. ...[Cited by 2 - Related Articles - Web Search](#)Did you mean to search for: [sql \*\*ECO\*\*complex condition attribute object database](#)Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [Next](#) [Google Home](#) - [About Google](#) - [About Google Scholar](#)

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[\[BOOK\] Active, Real-Time, and Temporal Database Systems: Second International Workshop, ArtDB'97, Como, ...](#)

SF Andler, J Hansson - 1998 - books.google.com

... Rules can relate to other objects and have attributes. ... towards modeling composite events using more complex condition parts ... A condition in an ECA rule is used ...

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A Abrahams, J Bacon - Proceedings of the 4th International Conference on ..., 2001 - cl.cam.ac.uk

... in various opaque languages, such as Java, C, and SQL. ... a particular item stored in the database may be ... may occur retrospectively based on the attributes of the ...

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E ANWAR - 1996 - itlab.uta.edu

... We demonstrate how ECA (event-condition-action) rules, dened ... object-oriented database

system developed at UF, is used for demonstrating our approach ...

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